CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date:17.09.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID: : Cement (Chettinad 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : August - 2021

Date of Testing : 15.09.2021 to 17.09.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 Date : 17.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Date of Testing : 17.09.2021
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	91	9.10	9.10	90.9	90-100
2.36	106	10.60	19.70	80.3	75-100
1.18	147	14.70	34.40	65.6	55-90
600 Micron	221	22.10	56.50	43.5	35-59
300 Micron	183	18.30	74.80	25.2	8-30
150 Micron	196	19.60	94.40	5.6	0-10

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Job No.: CQCE/BBMP/KR/16/2021-22

Date : 17.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Date of Testing : 17.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8326	55.51	56.83	43.17	30-70
10	3047	20.31	77.14	22.86	10-35
4.75	2759	18.39	95.53	4.47	0-5

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Job No.: CQCE/BBMP/KR/16/2021-22

Date : 17.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Date of Testing : 17.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	2695	53.9	57.5	42.5	25-55
4.75	1822	36.4	94.0	6.0	0-10

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Job No.: CQCE/BBMP/KR/16/2021-22 Date : 17.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Date of Testing : 17.09.2021

Material : Sand(Plastering) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	18	1.80	1.80	98.2	95-100
2.36	16	1.60	3.40	96.6	95-100
1.18	34	3.40	6.80	93.2	90-100
600 Micron	87	8.70	15.50	84.5	80-100
300 Micron	212	21.20	36.70	63.3	20-65
150 Micron	498	49.80	86.50	13.5	0-15

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Job No.: CQCE/BBMP/KR/16/2021-22

Date : 17.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Date of Testing : 17.09.2021

Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	20	2.00	2.00	98.0	90-100
1.18	25	2.50	4.50	95.5	70-100
600 Micron	103	10.30	14.80	85.2	40-100
300 Micron	232	23.20	38.00	62.0	5-70
150 Micron	504	50.40	88.40	11.6	0-15

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Job No.: CQCE/BBMP/KR/16/2021-22

Date :17.09.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Steel Dia/Length: 8mm,10mm,12mm,16mm" TMT"

Reference to BIS codes: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test: :17.09.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	523	612	1.17	15
2	TMT	10	0.617	501	621	1.24	22
3	TMT	12	0.886	509	605	1.19	17.5
4	TMT	16	1.588	516	617	1.20	18

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 Date: 21.10.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Contractor	:	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of Work	:	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	21.10.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.372	2310.46	1.64	0.961	33.20	16.91	18.26	17.55	21.94
2	50.00	84.00	0.388	2352.46	1.68	0.965	34.50	17.57	18.98	18.32	22.90
3	50.00	87.00	0.408	2388.42	1.74	0.972	35.10	17.88	19.31	18.76	23.46

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 Date: 28.12.2021

TEST REPORT

Client	:	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	:	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	:	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Type of the test	:	Physical tests on Paver Blocks
Date of Testing	:	27.12.2021 to 28.12.2021
Samples supplied by	:	AGENCY

The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl.No	Identification	Thickness, mm	Average thickness, mm
1	01	75.18	75.16
2	02	75.14	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm^2	Compressive strength N/mm^2	Compressive strength Kg/m^2	Requirement as Specification
1	01	691.8	24,200	28.58	285.8	Minimum required Compressive Strength of Individual Units 281 Kg/m^2
2	02	688.2	24,200	28.43	284.3	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 21.10.2021

KERB STONE (CORE) TEST REPORT

Client	:	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	:	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of Work	:	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	21.10.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.354	2311.42	1.56	0.952	24.50	12.48	13.48	12.84	16.04
2	50.00	80.00	0.368	2342.76	1.60	0.957	25.70	13.09	14.14	13.53	16.91
3	50.00	82.00	0.383	2378.78	1.64	0.961	26.20	13.34	14.41	13.85	17.31

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date : 23.06.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Date of Testing : 17.09.2021

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	23.5	306.5	5.11	1958.33	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	22.8	311.2	5.19	1900.00	
3	Block 3	23.6	318.4	5.31	1966.67	
4	Block 4	24.1	325.9	5.43	2008.33	

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 26.08.2021

TEST REPORT ON MECHANICAL PROPORTIES OF CHAIN LINK FENCING

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample Identification: Chain link fencing

Reference to BIS code: IS 1161:1998 Steel for Structural Purposes-Specification

Date of test: 27.12.2021

Description of Sample	Description	Results	Required as per IS 1161-1998
Chain link fencing 50 mm of 8 Gauge	Diameter	3.19 mm	3.15mm
	Measured mesh	size 51 mm	50 ± 3 mm

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 Date: 01.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	01.10.2021	8.018	281.4	12.51
2	24.09.2021	01.10.2021	8.037	262.2	11.65
3	24.09.2021	01.10.2021	8.059	270.5	12.02

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 22.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	22.10.2021	8.181	395.7	17.59
2	24.09.2021	22.10.2021	8.164	382.2	16.99
3	24.09.2021	22.10.2021	8.113	369.4	16.42

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 01.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	: **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	01.10.2021	8.123	348.2	15.48
2	24.09.2021	01.10.2021	8.097	375.9	16.71
3	24.09.2021	01.10.2021	8.083	354.3	15.75

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Job No.: CQCE/BBMP/KR/16/2021-22

Date: 01.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	01.10.2021	8.045	375.2	16.68
2	24.09.2021	01.10.2021	8.057	392.7	17.45
3	24.09.2021	01.10.2021	8.040	396.4	17.62

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/KR/16/2021-22

Date: 19.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.10.2021	19.10.2021	8.049	366.8	16.30
2	12.10.2021	19.10.2021	8.074	378.2	16.81
3	12.10.2021	19.10.2021	8.109	395.3	17.57

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Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.10.2021	19.10.2021	8.153	374.2	16.63
2	12.10.2021	19.10.2021	8.092	367.1	16.32
3	12.10.2021	19.10.2021	8.136	339.1	15.07

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Job No.: CQCE/BBMP/KR/16/2021-22

Date: 22.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	22.10.2021	8.098	488.6	21.72
2	24.09.2021	22.10.2021	8.124	493.5	21.93
3	24.09.2021	22.10.2021	8.129	507.4	22.55

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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	22.10.2021	8.156	506.3	22.50
2	24.09.2021	22.10.2021	8.113	493.8	21.95
3	24.09.2021	22.10.2021	8.127	513.9	22.84

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Job No.: CQCE/BBMP/KR/16/2021-22

Date: 09.11.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Agency	: **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
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Sample ID	: Cement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.10.2021	09.11.2021	8.075	515.6	22.92
2	12.10.2021	09.11.2021	8.093	523.4	23.26
3	12.10.2021	09.11.2021	8.105	509.4	22.64

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Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.10.2021	09.11.2021	8.094	500.9	22.26
2	12.10.2021	09.11.2021	8.036	512.6	22.78
3	12.10.2021	09.11.2021	8.052	522.6	23.23

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Job No: CQCE/BBMP/KR/16/2021-22

Date: 01.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	: **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	01.10.2021	8.172	504.6	22.43
2	24.09.2021	01.10.2021	8.135	537.5	23.89
3	24.09.2021	01.10.2021	8.102	522.1	23.20

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 Date: 01.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	01.10.2021	8.085	526.2	23.39
2	24.09.2021	01.10.2021	8.061	537.4	23.88
3	24.09.2021	01.10.2021	8.029	511.9	22.75

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 14.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2021	14.10.2021	8.091	522.3	23.21
2	07.10.2021	14.10.2021	8.019	501.8	22.30
3	07.10.2021	14.10.2021	8.048	536.6	23.85

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 14.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2021	14.10.2021	8.117	520.9	23.15
2	07.10.2021	14.10.2021	8.145	509.8	22.66
3	07.10.2021	14.10.2021	8.129	538.5	23.93

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 Date: 14.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2022	14.01.2022	8.152	513.2	22.81
2	07.01.2022	14.01.2022	8.196	506.9	22.53
3	07.01.2022	14.01.2022	8.160	527.1	23.43

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 14.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2022	14.01.2022	8.136	545.6	24.25
2	07.01.2022	14.01.2022	8.110	521.9	23.20
3	07.01.2022	14.01.2022	8.072	511.6	22.74

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 15.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2022	15.01.2022	8.162	529.1	23.52
2	08.01.2022	15.01.2022	8.191	514.2	22.85
3	08.01.2022	15.01.2022	8.104	501.6	22.29

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 22.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	22.10.2021	8.111	721.9	32.08
2	24.09.2021	22.10.2021	8.007	734.2	32.63
3	24.09.2021	22.10.2021	8.068	707.8	31.46

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 22.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2021	22.10.2021	8.170	709.3	31.52
2	24.09.2021	22.10.2021	8.194	725.4	32.24
3	24.09.2021	22.10.2021	8.186	748.7	33.28

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 Date: 04.11.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2021	04.11.2021	8.004	721.9	32.08
2	07.10.2021	04.11.2021	8.016	711.4	31.62
3	07.10.2021	04.11.2021	8.026	702.6	31.23

Note:

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 04.11.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.10.2021	04.11.2021	8.123	740.8	32.92
2	07.10.2021	04.11.2021	8.154	717.3	31.88
3	07.10.2021	04.11.2021	8.197	725.8	32.26

Note:

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Job No.: CQCE/BBMP/KR/16/2021-22

Date: 04.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2022	04.02.2022	8.100	720.8	32.04
2	07.01.2022	04.02.2022	8.088	711.6	31.63
3	07.01.2022	04.02.2022	8.064	704.9	31.33

Note:

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 04.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	: **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M30
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.01.2022	04.02.2022	8.056	698.4	31.04
2	07.01.2022	04.02.2022	8.079	705.5	31.36
3	07.01.2022	04.02.2022	8.094	723.4	32.15

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 05.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M30

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2022	05.02.2022	8.142	748.2	33.25
2	08.01.2022	05.02.2022	8.123	717.6	31.89
3	08.01.2022	05.02.2022	8.109	723.9	32.17

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 07.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** R R Nagara Division, BBMP, Bangalore.
Agency	**: Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.
Name of the work	: Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{40}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.09.2021	07.10.2021	8.007	649.5	28.87
2	30.09.2021	07.10.2021	8.026	632.7	28.12
3	30.09.2021	07.10.2021	8.079	616.1	27.38

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Job No.: CQCE/BBMP/KR/16/2021-22

Date: 07.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M40

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.09.2021	07.10.2021	8.103	627.4	27.88
2	30.09.2021	07.10.2021	8.064	613.2	27.25
3	30.09.2021	07.10.2021	8.012	634.9	28.22

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22

Date: 28.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{40}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.09.2021	28.10.2021	8.194	928.6	41.27
2	30.09.2021	28.10.2021	8.173	934.7	41.54
3	30.09.2021	28.10.2021	8.154	950.1	42.23

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Job No.: CQCE/BBMP/KR/16/2021-22

Date: 28.10.2021

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Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of the work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{40}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.09.2021	28.10.2021	8.085	933.4	41.48
2	30.09.2021	28.10.2021	8.061	946.1	42.05
3	30.09.2021	28.10.2021	8.037	957.5	42.56

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KR/16/2021-22 **Date** : 29.12.2021

GRADATION FOR DRY LEAN CONCRETE
MORTH TABLE-600-1

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of Work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

Date of Testing : 29.12.2021

Material : Dry Lean Concrete

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
26.5	0	0	0	100	100
19	964	964	9.6	90.4	75-95
9.5	2355	3319	33.2	66.8	50-70
4.75	1872	5191	51.9	48.1	30-55
2.36	2454	7645	76.5	23.6	17-42
0.6	736	8381	83.8	16.2	8-22
0.3	269	8650	86.5	13.5	7-17
0.15	198	8848	88.5	11.5	2-12
0.075	647	9495	95.0	5.1	0-10

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

JobNo: CQCE/BBMP/KR/16/2021-22 Date : 25.12.2021

GRADATION FOR GSB (Grading V)

Client : **Executive Engineer,** R R Nagara Division, BBMP, Bangalore.

Agency : **Sri. Kiran R (M/s Shrusti Samupadha Construction),** Contractor, Bangalore.

Name of work : Proposed Basketball Court with allide developments to the park at Sharadambanagar in ward no 16, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 23.12.2021 to 25.12.2021

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	615	615	4.73	95.27	80-100
26.5	2137	2752	21.17	78.83	55-90
9.5	2498	5250	40.38	59.62	35-65
4.75	1537	6787	52.21	47.79	25-50
2.36	3798	10585	81.42	18.58	10-20
0.85	1583	12168	93.60	6.40	2-10
0.425	402	12570	96.69	3.31	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400.1, Grading V

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